

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 91 of 131

	Middle	QPSK	RB50#0	8.947	9.803	14.21
		16QAM	RB50#0	8.961	9.824	14.22
	High	QPSK	RB50#0	8.960	9.829	14.23
		16QAM	RB50#0	8.968	9.863	14.24

TDD LTE Band 38						
Test BW	CH	Modul.	RB Set (Size#Offset)	99% Occupied Bandwidth (MHz)	-26 dB Bandwidth (MHz)	Refer to Plot ^{Note 2}
5 MHz	Low	QPSK	RB25#0	4.505	4.982	15.1
		16QAM	RB25#0	4.518	5.367	15.2
	Middle	QPSK	RB25#0	4.509	5.048	15.3
		16QAM	RB25#0	4.502	5.105	15.4
	High	QPSK	RB25#0	4.501	5.049	15.5
		16QAM	RB25#0	4.515	5.138	15.6
10 MHz	Low	QPSK	RB50#0	8.994	10.141	15.7
		16QAM	RB50#0	9.001	10.065	15.8
	Middle	QPSK	RB50#0	9.001	10.368	15.9
		16QAM	RB50#0	8.970	10.180	15.10
	High	QPSK	RB50#0	9.006	10.866	15.11
		16QAM	RB50#0	9.002	10.653	15.12
15 MHz	Low	QPSK	RB75#0	13.495	15.819	15.13
		16QAM	RB75#0	13.489	16.131	15.14
	Middle	QPSK	RB75#0	13.496	16.028	15.15
		16QAM	RB75#0	13.515	15.851	15.16
	High	QPSK	RB75#0	13.510	16.592	15.17
		16QAM	RB75#0	13.494	15.517	15.18
20 MHz	Low	QPSK	RB100#0	17.972	20.906	15.19
		16QAM	RB100#0	17.994	21.776	15.20
	Middle	QPSK	RB100#0	17.938	20.429	15.21
		16QAM	RB100#0	17.979	21.711	15.22
	High	QPSK	RB100#0	17.981	20.594	15.23
		16QAM	RB100#0	17.941	20.172	15.24

TDD LTE Band 41						
Test BW	CH	Modul.	RB Set (Size#Offset)	99% Occupied Bandwidth (MHz)	-26 dB Bandwidth (MHz)	Refer to Plot ^{Note 2}
5 MHz	Low	QPSK	RB25#0	4.502	5.040	16.1
		16QAM	RB25#0	4.516	5.231	16.2
	Middle	QPSK	RB25#0	4.509	4.996	16.3
		16QAM	RB25#0	4.499	5.025	16.4

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 92 of 131

	High	QPSK	RB25#0	4.500	5.125	16.5
		16QAM	RB25#0	4.514	5.231	16.6
10 MHz	Low	QPSK	RB50#0	8.996	10.266	16.7
		16QAM	RB50#0	8.986	9.906	16.8
	Middle	QPSK	RB50#0	8.996	10.508	16.9
		16QAM	RB50#0	8.977	10.392	16.10
	High	QPSK	RB50#0	9.014	10.407	16.11
		16QAM	RB50#0	9.004	10.537	16.12
15 MHz	Low	QPSK	RB75#0	13.496	15.318	16.13
		16QAM	RB75#0	13.466	15.120	16.14
	Middle	QPSK	RB75#0	13.470	15.562	16.15
		16QAM	RB75#0	13.536	15.845	16.16
	High	QPSK	RB75#0	13.482	16.601	16.17
		16QAM	RB75#0	13.516	16.133	16.18
20 MHz	Low	QPSK	RB100#0	17.981	22.122	16.19
		16QAM	RB100#0	17.972	21.563	16.20
	Middle	QPSK	RB100#0	17.981	21.548	16.21
		16QAM	RB100#0	17.996	21.987	16.22
	High	QPSK	RB100#0	18.011	21.622	16.23
		16QAM	RB100#0	17.999	21.987	16.24

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 93 of 131

Occupied Bandwidth Measurement Results for NR

NR Band 41							
Test BW	CH	Modul.	UL RB Number	UL RB Position	99% Occupied Bandwidth (MHz)	-26 dB Bandwidth (MHz)	Refer to Plot ^{Note 2}
20 MHz	Low	PI/2 BPSK	50	0	18.020	23.770	17.1
		QPSK	50	0	18.043	24.420	17.2
	Middle	PI/2 BPSK	50	0	17.972	19.470	17.3
		QPSK	50	0	17.969	19.470	17.4
	High	PI/2 BPSK	50	0	18.049	23.600	17.5
		QPSK	50	0	18.057	25.990	17.6
60 MHz	Low	PI/2 BPSK	162	0	58.265	83.270	17.7
		QPSK	162	0	58.241	83.040	17.8
	Middle	PI/2 BPSK	162	0	58.157	61.070	17.9
		QPSK	162	0	58.176	61.200	17.10
	High	PI/2 BPSK	162	0	58.178	61.220	17.11
		QPSK	162	0	58.177	61.240	17.12
100 MHz	Low	PI/2 BPSK	270	0	96.990	114.200	17.13
		QPSK	270	0	96.956	114.100	17.14
	Middle	PI/2 BPSK	270	0	97.061	102.100	17.15
		QPSK	270	0	97.034	102.100	17.16
	High	PI/2 BPSK	270	0	96.787	102.100	17.17
		QPSK	270	0	96.736	101.900	17.18

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 94 of 131

5.1.4 Frequency Stability

Frequency Stability Measurement Results for GSM/GPRS/EDGE/CDMA/EVDO

GPRS 850								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 824.2 MHz		Middle channel 836.6 MHz		High channel 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±2060.5	--	±2091.5	--	±2122	PASS
	-20	--		--				
	-10	12.91		13.43		15.24		
	0	15.98		18.27		18.02		
	10	17.82		16.63		18.53		
	20	15.95		19.18		16.40		
	25	15.21		17.53		16.66		
	30	15.40		17.01		18.08		
	40	16.50		16.40		16.21		
	50	17.14		17.72		17.37		
3.4 V	25	17.72		15.14		16.43		
4.35V	25	15.76		17.18		14.98		

GPRS 1900								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 1850.2 MHz		Middle channel 1880 MHz		High channel 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±4625.5	--	±4700.0	--	±4774.5	PASS
	-20	--		--				
	-10	7.26		5.65		10.62		
	0	11.24		13.69		14.95		
	10	11.49		14.33		14.98		
	20	12.85		17.11		15.21		
	25	13.30		15.88		15.05		
	30	10.72		12.40		18.14		
	40	10.62		14.75		16.56		
	50	12.82		12.07		16.50		
3.4 V	25	10.98		10.36		11.62		
4.35V	25	13.14		15.34		17.60		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 95 of 131

EDGE 850								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 824.2 MHz		Middle channel 836.6 MHz		High channel 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±2060.5	--	±2091.5	--	±2122	PASS
	-20	--		--		--		
	-10	21.89		23.79		18.89		
	0	22.31		24.28		23.67		
	10	22.96		21.86		28.57		
	20	20.47		25.54		25.15		
	25	23.47		24.18		24.60		
	30	24.60		25.83		32.87		
	40	30.22		27.38		21.02		
	50	20.82		25.02		18.21		
3.4 V	25	19.57		19.44		13.50		
4.35V	25	18.85		17.63		15.72		

EDGE 1900								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 1850.2 MHz		Middle channel 1880 MHz		High channel 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±4625.5	--	±4700.0	--	±4774.5	PASS
	-20	--		--				
	-10	12.91		-8.27		14.08		
	0	16.92		-10.56		13.88		
	10	13.59		16.89		20.34		
	20	20.86		13.85		13.40		
	25	17.56		13.33		14.33		
	30	16.95		15.30		18.11		
	40	20.08		17.21		19.40		
	50	13.37		15.24		15.37		
3.4 V	25	13.04		16.72		16.72		
4.35V	25	17.40		15.17		12.66		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 96 of 131

CDMA BC0								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 824.7 MHz		Middle channel 836.52 MHz		High channel 848.31 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±2061.75	--	±2091.5	--	±2120.775	PASS
	-15	--		--				
	-10	5.05		4.91		-3.22		
	0	-10.47		-6.88		-3.59		
	10	-7.84		-2.64		0.29		
	20	8.79		3.88		-4.47		
	25	-0.37		5.64		0.88		
	30	-0.59		5.86		9.52		
	40	9.08		6.30		-4.47		
	50	4.61		-6.96		-3.66		
3.4 V	25	-5.13		-5.27		6.59		
4.35V	25	-1.17		-8.20		-3.81		

EVDO BC0								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 824.7 MHz		Middle channel 836.52 MHz		High channel 848.31 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±2061.75	--	±2091.5	--	±2120.775	PASS
	-15	--		--				
	-10	-4.69		-2.34		-7.32		
	0	-2.49		-1.39		-4.32		
	10	-4.76		-4.10		-5.79		
	20	-4.17		-2.12		-4.25		
	25	1.39		-4.98		2.27		
	30	-2.78		-0.66		0.44		
	40	-6.30		0.59		-6.15		
	50	-3.37		-3.59		1.39		
3.4 V	25	-4.61		-4.10		0.29		
4.35V	25	-2.93		-6.37		-4.98		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 97 of 131

Frequency Stability Measurement Results for WCDMA

WCDMA Band II								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 1852.4 MHz		Middle channel 1880 MHz		High channel 1907.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±4631	--	±4700	--	±4769	PASS
	-20	--		--				
	-10	3.31		4.18		1.95		
	0	1.97		3.53		3.48		
	10	2.25		3.82		2.23		
	20	2.15		3.88		1.61		
	25	1.73		2.63		3.81		
	30	2.63		3.11		2.99		
	40	2.33		1.60		1.70		
	50	3.21		3.72		1.23		
3.4 V	25	3.04		2.45		1.97		
4.35V	25	4.49		3.83		3.27		

WCDMA Band IV								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 1712.4 MHz		Middle channel 1732.4 MHz		High channel 1752.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±4281	--	±4331	--	±4381.5	PASS
	-20	--		--				
	-10	1.80		2.27		-0.99		
	0	1.29		1.70		0.26		
	10	3.13		0.86		-1.17		
	20	1.47		1.60		0.41		
	25	3.25		2.45		-0.74		
	30	3.46		0.84		0.16		
	40	2.11		1.02		0.31		
	50	3.54		2.24		0.52		
3.4 V	25	2.33		2.53		-1.03		
4.35V	25	2.40		0.88		-0.96		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 98 of 131

WCDMA Band V								
Test Conditions		Frequency Deviation						Verdict
Power (V)	Temperature (°C)	Low channel 826.4 MHz		Middle channel 836.4 MHz		High channel 846.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±2066	--	±2091	--	±2116.5	PASS
	-20	--		--				
	-10	-0.28		-0.09		0.04		
	0	0.11		-0.50		0.32		
	10	-0.39		-0.36		0.08		
	20	-0.43		-0.44		-0.21		
	25	0.11		0.33		0.22		
	30	-0.39		0.50		0.34		
	40	0.29		0.28		-0.64		
	50	-0.99		-0.19		0.25		
3.4 V	25	0.28		0.65		-0.15		
4.35V	25	-0.52		0.30		0.44		

Frequency Stability Measurement Results for LTE

FDD LTE Band 2						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 10MHz		16QAM 10MHz		
		Middle channel 1880 MHz		Middle channel 1880 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±4700	--	±4700	PASS
	-20	--		--		
	-10	-0.40		-0.89		
	0	-2.66		0.26		
	10	-1.42		-0.62		
	20	-0.31		-0.64		
	25	-0.84		-0.56		
	30	-0.60		-0.34		
	40	1.09		1.19		
	50	0.14		-0.10		
3.4 V	25	-1.56		0.82		
4.35V	25	-1.09		0.86		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 99 of 131

FDD LTE Band 4						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 10MHz		16QAM 10MHz		
		Middle channel 1732.5 MHz		Middle channel 1732.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±4331.25	--	±4331.25	PASS
	-20	--		--		
	-10	0.79		1.87		
	0	0.00		0.03		
	10	1.62		0.39		
	20	1.26		-0.96		
	25	2.05		1.33		
	30	1.24		-0.29		
	40	1.37		0.74		
	50	-0.57		-0.13		
3.4 V	25	0.47		0.73		
4.35V	25	-1.46		0.24		

FDD LTE Band 5						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 10MHz		16QAM 10MHz		
		Middle channel 836.5 MHz		Middle channel 836.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±2091.25	--	±2091.25	PASS
	-20	--		--		
	-10	-0.53		-0.44		
	0	-0.66		0.11		
	10	0.36		-0.04		
	20	-0.90		-1.90		
	25	-1.33		-1.12		
	30	-0.51		-1.36		
	40	-1.59		-0.73		
	50	-1.24		-0.53		
3.4 V	25	-1.90		-1.70		
4.35V	25	-2.20		-0.62		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 100 of 131

FDD LTE Band 7						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 10MHz		16QAM 10MHz		
		Middle channel 2535 MHz		Middle channel 2535 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±6337.5	--	±6337.5	PASS
	-20	--		--		
	-10	0.14		0.13		
	0	0.79		0.49		
	10	-0.30		0.53		
	20	1.17		0.59		
	25	0.86		-0.13		
	30	2.40		0.46		
	40	-0.51		1.30		
	50	-0.14		1.16		
3.4 V	25	1.82		1.70		
4.35V	25	1.60		0.76		

FDD LTE Band 12						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 10MHz		16QAM 10MHz		
		Middle channel 707.5 MHz		Middle channel 707.5 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±1768.75	--	±1768.75	PASS
	-20	--		--		
	-10	0.23		-0.04		
	0	-0.46		0.13		
	10	-0.54		-0.13		
	20	-0.97		-0.30		
	25	-0.59		0.33		
	30	-0.19		0.01		
	40	-1.13		0.41		
	50	-0.26		0.06		
3.4 V	23	-0.54		-0.79		
4.35V	23	-0.17		0.37		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 101 of 131

TDD LTE Band 38						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 10MHz		16QAM 10MHz		
		Middle channel 2595 MHz		Middle channel 2595 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±6487.5	--	±6487.5	PASS
	-20	--		--		
	-10	-3.76		-3.69		
	0	-4.63		-4.75		
	10	-2.60		-4.91		
	20	-4.02		-4.21		
	25	-2.52		-4.78		
	30	-4.52		-4.35		
	40	-2.50		-2.27		
	50	-3.15		-2.79		
3.4 V	25	-6.24		-3.79		
4.35V	25	-4.35		-3.69		

TDD LTE Band 41						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 10MHz		16QAM 10MHz		
		Middle channel 2593 MHz		Middle channel 2593 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±6482.5	--	±6482.5	PASS
	-20	--		--		
	-10	-2.17		-2.43		
	0	-2.43		-2.72		
	10	-2.35		-3.13		
	20	-3.46		-1.65		
	25	-1.85		-1.93		
	30	-3.28		-1.80		
	40	-2.30		0.16		
	50	-0.79		-0.80		
3.4 V	25	-4.63	±6482.5	-2.16	±6482.5	PASS
4.35V	25	-3.00		-2.35		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 102 of 131

Frequency Stability Measurement Results for NR

NR Band 41						
Test Conditions		Frequency Deviation				Verdict
Power (V)	Temperature (°C)	QPSK 100MHz		PI/2 BPSK 100MHz		
		Middle channel 2592.99 MHz		Middle channel 2592.99 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8 V	-30	--	±6482.475	--	±6482.475	PASS
	-20	--		--		
	-10	-10.28		-9.43		
	0	-7.72		-7.92		
	10	-8.98		-5.70		
	20	-7.92		-8.64		
	25	-9.44		-6.69		
	30	-9.14		-7.07		
	40	-7.27		-5.97		
	50	-11.76		-3.92		
3.4 V	25	-10.45	±6482.475	-9.09	±6482.475	PASS
4.35V	25	-9.91		-5.73		

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 103 of 131

5.1.5 Spurious Emission at Antenna Terminals

Note(s):

1. GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.
2. The frequencies of verdict which are marked by "N/A" should be ignored because they are MS carrier frequency.
3. Test plots please refer to the document "Annex No: SHE22030040-02CE Data EXHIBIT C".

Spurious Emission Measurement Results for GSM//CDMA/WCDMA

Test Band	Channel	Refer to Plot ^{Note 3}	Verdict
GRPS 850	Low	1.1	PASS
	Middle	1.2	PASS
	High	1.3	PASS
GRPS 1900	Low	2.1	PASS
	Middle	2.2	PASS
	High	2.3	PASS
EDGE 850	Low	3.1	PASS
	Middle	3.2	PASS
	High	3.3	PASS
EDGE 1900	Low	4.1	PASS
	Middle	4.2	PASS
	High	4.3	PASS
CDMA BC0	Low	5.1	PASS
	Middle	5.2	PASS
	High	5.3	PASS
EVDO BC0	Low	6.1	PASS
	Middle	6.2	PASS
	High	6.3	PASS
WCDMA Band II	Low	7.1	PASS
	Middle	7.2	PASS
	High	7.3	PASS
WCDMA Band IV	Low	8.1	PASS
	Middle	8.2	PASS
	High	8.3	PASS
WCDMA Band V	Low	9.1	PASS
	Middle	9.2	PASS
	High	9.3	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 104 of 131

Spurious Emission Measurement Results for LTE

FDD LTE Band 2					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 3}	Verdict
1.4 MHz	Low	QPSK	RB1#0	10.1	PASS
		16QAM	RB1#0	10.2	PASS
	Middle	QPSK	RB1#0	10.3	PASS
		16QAM	RB1#0	10.4	PASS
	High	QPSK	RB1#0	10.5	PASS
		16QAM	RB1#0	10.6	PASS
3 MHz	Low	QPSK	RB1#0	10.7	PASS
		16QAM	RB1#0	10.8	PASS
	Middle	QPSK	RB1#0	10.9	PASS
		16QAM	RB1#0	10.10	PASS
	High	QPSK	RB1#0	10.11	PASS
		16QAM	RB1#0	10.12	PASS
5 MHz	Low	QPSK	RB1#0	10.13	PASS
		16QAM	RB1#0	10.14	PASS
	Middle	QPSK	RB1#0	10.15	PASS
		16QAM	RB1#0	10.16	PASS
	High	QPSK	RB1#0	10.17	PASS
		16QAM	RB1#0	10.18	PASS
10 MHz	Low	QPSK	RB1#0	10.19	PASS
		16QAM	RB1#0	10.20	PASS
	Middle	QPSK	RB1#0	10.21	PASS
		16QAM	RB1#0	10.22	PASS
	High	QPSK	RB1#0	10.23	PASS
		16QAM	RB1#0	10.24	PASS
15 MHz	Low	QPSK	RB1#0	10.25	PASS
		16QAM	RB1#0	10.26	PASS
	Middle	QPSK	RB1#0	10.27	PASS
		16QAM	RB1#0	10.28	PASS
	High	QPSK	RB1#0	10.29	PASS
		16QAM	RB1#0	10.30	PASS
20 MHz	Low	QPSK	RB1#0	10.31	PASS
		16QAM	RB1#0	10.32	PASS
	Middle	QPSK	RB1#0	10.33	PASS
		16QAM	RB1#0	10.34	PASS
	High	QPSK	RB1#0	10.35	PASS
		16QAM	RB1#0	10.36	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 105 of 131

FDD LTE Band 4					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 3}	Verdict
1.4 MHz	Low	QPSK	RB1#0	11.1	PASS
		16QAM	RB1#0	11.2	PASS
	Middle	QPSK	RB1#0	11.3	PASS
		16QAM	RB1#0	11.4	PASS
	High	QPSK	RB1#0	11.5	PASS
		16QAM	RB1#0	11.6	PASS
3 MHz	Low	QPSK	RB1#0	11.7	PASS
		16QAM	RB1#0	11.8	PASS
	Middle	QPSK	RB1#0	11.9	PASS
		16QAM	RB1#0	11.10	PASS
	High	QPSK	RB1#0	11.11	PASS
		16QAM	RB1#0	11.12	PASS
5 MHz	Low	QPSK	RB1#0	11.13	PASS
		16QAM	RB1#0	11.14	PASS
	Middle	QPSK	RB1#0	11.15	PASS
		16QAM	RB1#0	11.16	PASS
	High	QPSK	RB1#0	11.17	PASS
		16QAM	RB1#0	11.18	PASS
10 MHz	Low	QPSK	RB1#0	11.19	PASS
		16QAM	RB1#0	11.20	PASS
	Middle	QPSK	RB1#0	11.21	PASS
		16QAM	RB1#0	11.22	PASS
	High	QPSK	RB1#0	11.23	PASS
		16QAM	RB1#0	11.24	PASS
15 MHz	Low	QPSK	RB1#0	11.25	PASS
		16QAM	RB1#0	11.26	PASS
	Middle	QPSK	RB1#0	11.27	PASS
		16QAM	RB1#0	11.28	PASS
	High	QPSK	RB1#0	11.29	PASS
		16QAM	RB1#0	11.30	PASS
20 MHz	Low	QPSK	RB1#0	11.31	PASS
		16QAM	RB1#0	11.32	PASS
	Middle	QPSK	RB1#0	11.33	PASS
		16QAM	RB1#0	11.34	PASS
	High	QPSK	RB1#0	11.35	PASS
		16QAM	RB1#0	11.36	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 106 of 131

FDD LTE Band 5					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 3}	Verdict
1.4 MHz	Low	QPSK	RB1#0	12.1	PASS
		16QAM	RB1#0	12.2	PASS
	Middle	QPSK	RB1#0	12.3	PASS
		16QAM	RB1#0	12.4	PASS
	High	QPSK	RB1#0	12.5	PASS
		16QAM	RB1#0	12.6	PASS
3 MHz	Low	QPSK	RB1#0	12.7	PASS
		16QAM	RB1#0	12.8	PASS
	Middle	QPSK	RB1#0	12.9	PASS
		16QAM	RB1#0	12.10	PASS
	High	QPSK	RB1#0	12.11	PASS
		16QAM	RB1#0	12.12	PASS
5 MHz	Low	QPSK	RB1#0	12.13	PASS
		16QAM	RB1#0	12.14	PASS
	Middle	QPSK	RB1#0	12.15	PASS
		16QAM	RB1#0	12.16	PASS
	High	QPSK	RB1#0	12.17	PASS
		16QAM	RB1#0	12.18	PASS
10 MHz	Low	QPSK	RB1#0	12.19	PASS
		16QAM	RB1#0	12.20	PASS
	Middle	QPSK	RB1#0	12.21	PASS
		16QAM	RB1#0	12.22	PASS
	High	QPSK	RB1#0	12.23	PASS
		16QAM	RB1#0	12.24	PASS

FDD LTE Band 7					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 3}	Verdict
5 MHz	Low	QPSK	RB1#0	13.1	PASS
		16QAM	RB1#0	13.2	PASS
	Middle	QPSK	RB1#0	13.3	PASS
		16QAM	RB1#0	13.4	PASS
	High	QPSK	RB1#0	13.5	PASS
		16QAM	RB1#0	13.6	PASS
10 MHz	Low	QPSK	RB1#0	13.7	PASS
		16QAM	RB1#0	13.8	PASS
	Middle	QPSK	RB1#0	13.9	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 107 of 131

	High	16QAM	RB1#0	13.10	PASS
		QPSK	RB1#0	13.11	PASS
		16QAM	RB1#0	13.12	PASS
15 MHz	Low	QPSK	RB1#0	13.13	PASS
		16QAM	RB1#0	13.14	PASS
	Middle	QPSK	RB1#0	13.15	PASS
		16QAM	RB1#0	13.16	PASS
	High	QPSK	RB1#0	13.17	PASS
		16QAM	RB1#0	13.18	PASS
20 MHz	Low	QPSK	RB1#0	13.19	PASS
		16QAM	RB1#0	13.20	PASS
	Middle	QPSK	RB1#0	13.21	PASS
		16QAM	RB1#0	13.22	PASS
	High	QPSK	RB1#0	13.23	PASS
		16QAM	RB1#0	13.24	PASS

FDD LTE Band 12					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 3}	Verdict
1.4 MHz	Low	QPSK	RB1#0	14.1	PASS
		16QAM	RB1#0	14.2	PASS
	Middle	QPSK	RB1#0	14.3	PASS
		16QAM	RB1#0	14.4	PASS
	High	QPSK	RB1#0	14.5	PASS
		16QAM	RB1#0	14.6	PASS
3 MHz	Low	QPSK	RB1#0	14.7	PASS
		16QAM	RB1#0	14.8	PASS
	Middle	QPSK	RB1#0	14.9	PASS
		16QAM	RB1#0	14.10	PASS
	High	QPSK	RB1#0	14.11	PASS
		16QAM	RB1#0	14.12	PASS
5 MHz	Low	QPSK	RB1#0	14.13	PASS
		16QAM	RB1#0	14.14	PASS
	Middle	QPSK	RB1#0	14.15	PASS
		16QAM	RB1#0	14.16	PASS
	High	QPSK	RB1#0	14.17	PASS
		16QAM	RB1#0	14.18	PASS
10 MHz	Low	QPSK	RB1#0	14.19	PASS
		16QAM	RB1#0	14.20	PASS
	Middle	QPSK	RB1#0	14.21	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 108 of 131

		16QAM	RB1#0	14.22	PASS
	High	QPSK	RB1#0	14.23	PASS
		16QAM	RB1#0	14.24	PASS

TDD LTE Band 38

Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 3}	Verdict
5 MHz	Low	QPSK	RB1#0	15.1	PASS
		16QAM	RB1#0	15.2	PASS
	Middle	QPSK	RB1#0	15.3	PASS
		16QAM	RB1#0	15.4	PASS
	High	QPSK	RB1#0	15.5	PASS
		16QAM	RB1#0	15.6	PASS
10 MHz	Low	QPSK	RB1#0	15.7	PASS
		16QAM	RB1#0	15.8	PASS
	Middle	QPSK	RB1#0	15.9	PASS
		16QAM	RB1#0	15.10	PASS
	High	QPSK	RB1#0	15.11	PASS
		16QAM	RB1#0	15.12	PASS
15 MHz	Low	QPSK	RB1#0	15.13	PASS
		16QAM	RB1#0	15.14	PASS
	Middle	QPSK	RB1#0	15.15	PASS
		16QAM	RB1#0	15.16	PASS
	High	QPSK	RB1#0	15.17	PASS
		16QAM	RB1#0	15.18	PASS
20 MHz	Low	QPSK	RB1#0	15.19	PASS
		16QAM	RB1#0	15.20	PASS
	Middle	QPSK	RB1#0	15.21	PASS
		16QAM	RB1#0	15.22	PASS
	High	QPSK	RB1#0	15.23	PASS
		16QAM	RB1#0	15.24	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 109 of 131

TDD LTE Band 41					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 3}	Verdict
5 MHz	Low	QPSK	RB1#0	16.1	PASS
		16QAM	RB1#0	16.2	PASS
	Middle	QPSK	RB1#0	16.3	PASS
		16QAM	RB1#0	16.4	PASS
	High	QPSK	RB1#0	16.5	PASS
		16QAM	RB1#0	16.6	PASS
10 MHz	Low	QPSK	RB1#0	16.7	PASS
		16QAM	RB1#0	16.8	PASS
	Middle	QPSK	RB1#0	16.9	PASS
		16QAM	RB1#0	16.10	PASS
	High	QPSK	RB1#0	16.11	PASS
		16QAM	RB1#0	16.12	PASS
15 MHz	Low	QPSK	RB1#0	16.13	PASS
		16QAM	RB1#0	16.14	PASS
	Middle	QPSK	RB1#0	16.15	PASS
		16QAM	RB1#0	16.16	PASS
	High	QPSK	RB1#0	16.17	PASS
		16QAM	RB1#0	16.18	PASS
20 MHz	Low	QPSK	RB1#0	16.19	PASS
		16QAM	RB1#0	16.20	PASS
	Middle	QPSK	RB1#0	16.21	PASS
		16QAM	RB1#0	16.22	PASS
	High	QPSK	RB1#0	16.23	PASS
		16QAM	RB1#0	16.24	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 110 of 131

Spurious Emission Measurement Results for NR

NR Band 41						
Test BW	CH	Modul.	UL RB Number	UL RB Position	Refer to Plot ^{Note 3}	Verdict
20 MHz	Low	PI/2 BPSK	25	12	17.1	PASS
		QPSK	25	12	17.2	PASS
	Middle	PI/2 BPSK	25	12	17.3	PASS
		QPSK	25	12	17.4	PASS
	High	PI/2 BPSK	25	12	17.5	PASS
		QPSK	25	12	17.6	PASS
60 MHz	Low	PI/2 BPSK	81	40	17.7	PASS
		QPSK	81	40	17.8	PASS
	Middle	PI/2 BPSK	81	40	17.9	PASS
		QPSK	81	40	17.10	PASS
	High	PI/2 BPSK	81	40	17.11	PASS
		QPSK	81	40	17.12	PASS
100 MHz	Low	PI/2 BPSK	135	67	17.13	PASS
		QPSK	135	67	17.14	PASS
	Middle	PI/2 BPSK	135	67	17.15	PASS
		QPSK	135	67	17.16	PASS
	High	PI/2 BPSK	135	67	17.17	PASS
		QPSK	135	67	17.18	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 111 of 131

5.1.6 Band Edge

Note(s):

1. Test plots please refer to the document "Annex No: SHE22030040-02CE Data EXHIBIT D".

Band Edge Measurement Results for GSM/CDMA/WCDMA

Test Band	Channel	Refer to Plot ^{Note 1}	Verdict
GRPS 850	Low	1.1	PASS
	High	1.2	PASS
GRPS 1900	Low	2.1	PASS
	High	2.2	PASS
EDGE 850	Low	3.1	PASS
	High	3.2	PASS
EDGE 1900	Low	4.1	PASS
	High	4.2	PASS
CDMA BC0	Low	5.1	PASS
	High	5.2	PASS
EVDO BC0	Low	6.1	PASS
	High	6.2	PASS
WCDMA Band II	Low	7.1	PASS
	High	7.2	PASS
WCDMA Band IV	Low	8.1	PASS
	High	8.2	PASS
WCDMA Band V	Low	9.1	PASS
	High	9.2	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 112 of 131

Band Edge Measurement Results for LTE

FDD LTE Band 2					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 1}	Verdict
1.4 MHz	Low	QPSK	RB1#0	10.1	PASS
			RB6#0	10.2	PASS
		16QAM	RB1#0	10.3	PASS
			RB6#0	10.4	PASS
	High	QPSK	RB1#0	10.5	PASS
			RB6#0	10.6	PASS
		16QAM	RB1#0	10.7	PASS
			RB6#0	10.8	PASS
3 MHz	Low	QPSK	RB1#0	10.9	PASS
			RB15#0	10.10	PASS
		16QAM	RB1#0	10.11	PASS
			RB15#0	10.12	PASS
	High	QPSK	RB1#0	10.13	PASS
			RB15#0	10.14	PASS
		16QAM	RB1#0	10.15	PASS
			RB15#0	10.16	PASS
5 MHz	Low	QPSK	RB1#0	10.17	PASS
			RB25#0	10.18	PASS
		16QAM	RB1#0	10.19	PASS
			RB25#0	10.20	PASS
	High	QPSK	RB1#0	10.21	PASS
			RB25#0	10.22	PASS
		16QAM	RB1#0	10.23	PASS
			RB25#0	10.24	PASS
10 MHz	Low	QPSK	RB1#0	10.25	PASS
			RB50#0	10.26	PASS
		16QAM	RB1#0	10.27	PASS
			RB50#0	10.28	PASS
	High	QPSK	RB1#0	10.29	PASS
			RB50#0	10.30	PASS
		16QAM	RB1#0	10.31	PASS
			RB50#0	10.32	PASS
15 MHz	Low	QPSK	RB1#0	10.33	PASS
			RB75#0	10.34	PASS
		16QAM	RB1#0	10.35	PASS
			RB75#0	10.36	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 113 of 131

20 MHz	High	QPSK	RB1#0	10.37	PASS
			RB75#0	10.38	PASS
		16QAM	RB1#0	10.39	PASS
			RB75#0	10.40	PASS
	Low	QPSK	RB1#0	10.41	PASS
			RB100#0	10.42	PASS
		16QAM	RB1#0	10.43	PASS
			RB100#0	10.44	PASS
20 MHz	High	QPSK	RB1#0	10.45	PASS
			RB100#0	10.46	PASS
		16QAM	RB1#0	10.47	PASS
			RB100#0	10.48	PASS

FDD LTE Band 4					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 1}	Verdict
1.4 MHz	Low	QPSK	RB1#0	11.1	PASS
			RB6#0	11.2	PASS
		16QAM	RB1#0	11.3	PASS
			RB6#0	11.4	PASS
	High	QPSK	RB1#0	11.5	PASS
			RB6#0	11.6	PASS
		16QAM	RB1#0	11.7	PASS
			RB6#0	11.8	PASS
3 MHz	Low	QPSK	RB1#0	11.9	PASS
			RB15#0	11.10	PASS
		16QAM	RB1#0	11.11	PASS
			RB15#0	11.12	PASS
	High	QPSK	RB1#0	11.13	PASS
			RB15#0	11.14	PASS
		16QAM	RB1#0	11.15	PASS
			RB15#0	11.16	PASS
5 MHz	Low	QPSK	RB1#0	11.17	PASS
			RB25#0	11.18	PASS
		16QAM	RB1#0	11.19	PASS
			RB25#0	11.20	PASS
	High	QPSK	RB1#0	11.21	PASS
			RB25#0	11.22	PASS
		16QAM	RB1#0	11.23	PASS
			RB25#0	11.24	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 114 of 131

10 MHz	Low	QPSK	RB1#0	11.25	PASS
			RB50#0	11.26	PASS
		16QAM	RB1#0	11.27	PASS
			RB50#0	11.28	PASS
	High	QPSK	RB1#0	11.29	PASS
			RB50#0	11.30	PASS
		16QAM	RB1#0	11.31	PASS
			RB50#0	11.32	PASS
15 MHz	Low	QPSK	RB1#0	11.33	PASS
			RB75#0	11.34	PASS
		16QAM	RB1#0	11.35	PASS
			RB75#0	11.36	PASS
	High	QPSK	RB1#0	11.37	PASS
			RB75#0	11.38	PASS
		16QAM	RB1#0	11.39	PASS
			RB75#0	11.40	PASS
20 MHz	Low	QPSK	RB1#0	11.41	PASS
			RB100#0	11.42	PASS
		16QAM	RB1#0	11.43	PASS
			RB100#0	11.44	PASS
	High	QPSK	RB1#0	11.45	PASS
			RB100#0	11.46	PASS
		16QAM	RB1#0	11.47	PASS
			RB100#0	11.48	PASS

FDD LTE Band 5					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 1}	Verdict
1.4 MHz	Low	QPSK	RB1#0	12.1	PASS
			RB6#0	12.2	PASS
		16QAM	RB1#0	12.3	PASS
			RB6#0	12.4	PASS
	High	QPSK	RB1#0	12.5	PASS
			RB6#0	12.6	PASS
		16QAM	RB1#0	12.7	PASS
			RB6#0	12.8	PASS
3 MHz	Low	QPSK	RB1#0	12.9	PASS
			RB15#0	12.10	PASS
		16QAM	RB1#0	12.11	PASS
			RB15#0	12.12	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 115 of 131

	High	QPSK	RB1#0	12.13	PASS
			RB15#0	12.14	PASS
		16QAM	RB1#0	12.15	PASS
			RB15#0	12.16	PASS
5 MHz	Low	QPSK	RB1#0	12.17	PASS
			RB25#0	12.18	PASS
		16QAM	RB1#0	12.19	PASS
			RB25#0	12.20	PASS
	High	QPSK	RB1#0	12.21	PASS
			RB25#0	12.22	PASS
		16QAM	RB1#0	12.23	PASS
			RB25#0	12.24	PASS
10 MHz	Low	QPSK	RB1#0	12.25	PASS
			RB50#0	12.26	PASS
		16QAM	RB1#0	12.27	PASS
			RB50#0	12.28	PASS
	High	QPSK	RB1#0	12.29	PASS
			RB50#0	12.30	PASS
		16QAM	RB1#0	12.31	PASS
			RB50#0	12.32	PASS

FDD LTE Band 7					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 1}	Verdict
5 MHz	Low	QPSK	RB1#0	13.1	PASS
			RB25#0	13.2	PASS
		16QAM	RB1#0	13.3	PASS
			RB25#0	13.4	PASS
	High	QPSK	RB1#0	13.5	PASS
			RB25#0	13.6	PASS
		16QAM	RB1#0	13.7	PASS
			RB25#0	13.8	PASS
10 MHz	Low	QPSK	RB1#0	13.9	PASS
			RB50#0	13.10	PASS
		16QAM	RB1#0	13.11	PASS
			RB50#0	13.12	PASS
	High	QPSK	RB1#0	13.13	PASS
			RB50#0	13.14	PASS
		16QAM	RB1#0	13.15	PASS
			RB50#0	13.16	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 116 of 131

15 MHz	Low	QPSK	RB1#0	13.17	PASS
			RB75#0	13.18	PASS
		16QAM	RB1#0	13.19	PASS
			RB75#0	13.20	PASS
	High	QPSK	RB1#0	13.21	PASS
			RB75#0	13.22	PASS
		16QAM	RB1#0	13.23	PASS
			RB75#0	13.24	PASS
20 MHz	Low	QPSK	RB1#0	13.25	PASS
			RB100#0	13.26	PASS
		16QAM	RB1#0	13.27	PASS
			RB100#0	13.28	PASS
	High	QPSK	RB1#0	13.29	PASS
			RB100#0	13.30	PASS
		16QAM	RB1#0	13.31	PASS
			RB100#0	13.32	PASS

FDD LTE Band 12					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 1}	Verdict
1.4 MHz	Low	QPSK	RB1#0	14.1	PASS
			RB6#0	14.2	PASS
		16QAM	RB1#0	14.3	PASS
			RB6#0	14.4	PASS
	High	QPSK	RB1#0	14.5	PASS
			RB6#0	14.6	PASS
		16QAM	RB1#0	14.7	PASS
			RB6#0	14.8	PASS
3 MHz	Low	QPSK	RB1#0	14.9	PASS
			RB15#0	14.10	PASS
		16QAM	RB1#0	14.11	PASS
			RB15#0	14.12	PASS
	High	QPSK	RB1#0	14.13	PASS
			RB15#0	14.14	PASS
		16QAM	RB1#0	14.15	PASS
			RB15#0	14.16	PASS
5 MHz	Low	QPSK	RB1#0	14.17	PASS
			RB25#0	14.18	PASS
		16QAM	RB1#0	14.19	PASS
			RB25#0	14.20	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 117 of 131

10 MHz	High	QPSK	RB1#0	14.21	PASS
			RB25#0	14.22	PASS
		16QAM	RB1#0	14.23	PASS
			RB25#0	14.24	PASS
	Low	QPSK	RB1#0	14.25	PASS
			RB50#0	14.26	PASS
		16QAM	RB1#0	14.27	PASS
			RB50#0	14.28	PASS
10 MHz	High	QPSK	RB1#0	14.29	PASS
			RB50#0	14.30	PASS
		16QAM	RB1#0	14.31	PASS
			RB50#0	14.32	PASS

TDD LTE Band 38					
Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 1}	Verdict
5 MHz	Low	QPSK	RB1#0	15.1	PASS
			RB25#0	15.2	PASS
		16QAM	RB1#0	15.3	PASS
			RB25#0	15.4	PASS
	High	QPSK	RB1#0	15.5	PASS
			RB25#0	15.6	PASS
		16QAM	RB1#0	15.7	PASS
			RB25#0	15.8	PASS
10 MHz	Low	QPSK	RB1#0	15.9	PASS
			RB50#0	15.10	PASS
		16QAM	RB1#0	15.11	PASS
			RB50#0	15.12	PASS
	High	QPSK	RB1#0	15.13	PASS
			RB50#0	15.14	PASS
		16QAM	RB1#0	15.15	PASS
			RB50#0	15.16	PASS
15 MHz	Low	QPSK	RB1#0	15.17	PASS
			RB75#0	15.18	PASS
		16QAM	RB1#0	15.19	PASS
			RB75#0	15.20	PASS
	High	QPSK	RB1#0	15.21	PASS
			RB75#0	15.22	PASS
		16QAM	RB1#0	15.23	PASS
			RB75#0	15.24	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 118 of 131

20 MHz	Low	QPSK	RB1#0	15.25	PASS
			RB100#0	15.26	PASS
		16QAM	RB1#0	15.27	PASS
			RB100#0	15.28	PASS
	High	QPSK	RB1#0	15.29	PASS
			RB100#0	15.30	PASS
		16QAM	RB1#0	15.31	PASS
			RB100#0	15.32	PASS

TDD LTE Band 41

Test BW	CH	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 1}	Verdict
5 MHz	Low	QPSK	RB1#0	16.1	PASS
			RB25#0	16.2	PASS
		16QAM	RB1#0	16.3	PASS
			RB25#0	16.4	PASS
	High	QPSK	RB1#0	16.5	PASS
			RB25#0	16.6	PASS
		16QAM	RB1#0	16.7	PASS
			RB25#0	16.8	PASS
10 MHz	Low	QPSK	RB1#0	16.9	PASS
			RB50#0	16.10	PASS
		16QAM	RB1#0	16.11	PASS
			RB50#0	16.12	PASS
	High	QPSK	RB1#0	16.13	PASS
			RB50#0	16.14	PASS
		16QAM	RB1#0	16.15	PASS
			RB50#0	16.16	PASS
15 MHz	Low	QPSK	RB1#0	16.17	PASS
			RB75#0	16.18	PASS
		16QAM	RB1#0	16.19	PASS
			RB75#0	16.20	PASS
	High	QPSK	RB1#0	16.21	PASS
			RB75#0	16.22	PASS
		16QAM	RB1#0	16.23	PASS
			RB75#0	16.24	PASS
20 MHz	Low	QPSK	RB1#0	16.25	PASS
			RB100#0	16.26	PASS
		16QAM	RB1#0	16.27	PASS
			RB100#0	16.28	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 119 of 131

	High	QPSK	RB1#0	16.29	PASS
			RB100#0	16.30	PASS
		16QAM	RB1#0	16.31	PASS
			RB100#0	16.32	PASS

Band Edge Measurement Results for NR

NR Band 41						
Test BW	CH	Modul.	UL RB Number	UL RB Position	Refer to Plot ^{Note 3}	Verdict
20 MHz	Low	PI/2 BPSK	1	0	17.1	PASS
		PI/2 BPSK	50	0	17.2	PASS
		QPSK	1	0	17.3	PASS
		QPSK	50	0	17.4	PASS
	High	PI/2 BPSK	1	0	17.5	PASS
		PI/2 BPSK	50	0	17.6	PASS
		QPSK	1	0	17.7	PASS
		QPSK	50	0	17.8	PASS
60 MHz	Low	PI/2 BPSK	1	0	17.9	PASS
		PI/2 BPSK	162	0	17.10	PASS
		QPSK	1	0	17.11	PASS
		QPSK	162	0	17.12	PASS
	High	PI/2 BPSK	1	0	17.13	PASS
		PI/2 BPSK	162	0	17.14	PASS
		QPSK	1	0	17.15	PASS
		QPSK	162	0	17.16	PASS
100 MHz	Low	PI/2 BPSK	1	0	17.17	PASS
		PI/2 BPSK	270	0	17.18	PASS
		QPSK	1	0	17.19	PASS
		QPSK	270	0	17.20	PASS
	High	PI/2 BPSK	1	0	17.21	PASS
		PI/2 BPSK	270	0	17.22	PASS
		QPSK	1	0	17.23	PASS
		QPSK	270	0	17.24	PASS

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 120 of 131

5.1.7 Field Strength of Spurious Radiation

Note(s):

1. GSM and EGPRS modes have been verified, only the worst data with different transmit bandwidth for LTE and NR are shown here.
2. The frequencies of verdict which are marked by "N/A" should be ignored because they are MS carrier frequency.
3. When measurement frequency is above 18GHz, there is only noise floor of test system existing. So that there is no test data above 18GHz in the report.
4. Test plots please refer to the document:

SHE22030040-02CE Data FCC PCE GSM TX EXHIBIT E GSM850 GSM1900

SHE22030040-02CE Data FCC PCE CDMA EVDO TX EXHIBIT E BC0

SHE22030040-02CE Data FCC PCE WCDMA TX EXHIBIT E W2 W4 W5

SHE22030040-02CE Data FCC PCE LTE TX EXHIBIT E B2 B4 B5 B7 B12 B38 B41

SHE22030040-02CE Data FCC PCE NR TX EXHIBIT E N41

Field Strength of Spurious Radiation Measurement Results for GSM/CDMA/WCDMA

Test Band	Channel	Refer to Plot ^{Note 4}	Verdict
GPRS 850	Middle	--	PASS
GPRS 1900	Middle	--	PASS
EDGE 850	Middle	--	PASS
EDGE 1900	Middle	--	PASS
CDMA BC0	Middle	--	PASS
EVDO BC0	Middle	--	PASS
WCDMA Band II	Middle	--	PASS
WCDMA Band V	Middle	--	PASS

Field Strength of Spurious Radiation Measurement Results for LTE

FDD LTE Band 2					
Test BW	Channel	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 4}	Verdict
1.4 MHz	Middle	QPSK	RB1#0	--	Pass
3 MHz	Middle	QPSK	RB1#0	--	Pass
5 MHz	Middle	QPSK	RB1#0	--	Pass
10 MHz	Middle	QPSK	RB1#0	--	Pass
15 MHz	Middle	QPSK	RB1#0	--	Pass
20 MHz	Middle	QPSK	RB1#0	--	Pass

FDD LTE Band 4					
Test BW	Channel	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 4}	Verdict
1.4 MHz	Middle	QPSK	RB1#0	--	Pass

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 121 of 131

3 MHz	Middle	QPSK	RB1#0	--	Pass
5 MHz	Middle	QPSK	RB1#0	--	Pass
10 MHz	Middle	QPSK	RB1#0	--	Pass
15 MHz	Middle	QPSK	RB1#0	--	Pass
20 MHz	Middle	QPSK	RB1#0	--	Pass

FDD LTE Band 5					
Test BW	Channel	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 4}	Verdict
1.4 MHz	Middle	QPSK	RB1#0	--	Pass
3 MHz	Middle	QPSK	RB1#0	--	Pass
5 MHz	Middle	QPSK	RB1#0	--	Pass
10 MHz	Middle	QPSK	RB1#0	--	Pass

FDD LTE Band 7					
Test BW	Channel	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 4}	Verdict
5 MHz	Middle	QPSK	RB1#0	--	Pass
10 MHz	Middle	QPSK	RB1#0	--	Pass
15 MHz	Middle	QPSK	RB1#0	--	Pass
20 MHz	Middle	QPSK	RB1#0	--	Pass

FDD LTE Band 12					
Test BW	Channel	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 4}	Verdict
1.4 MHz	Middle	QPSK	RB1#0	--	Pass
3 MHz	Middle	QPSK	RB1#0	--	Pass
5 MHz	Middle	QPSK	RB1#0	--	Pass
10 MHz	Middle	QPSK	RB1#0	--	Pass

FDD LTE Band 41					
Test BW	Channel	Modul.	RB Set (Size#Offset)	Refer to Plot ^{Note 4}	Verdict
5 MHz	Middle	QPSK	RB1#0	--	Pass
10 MHz	Middle	QPSK	RB1#0	--	Pass
15 MHz	Middle	QPSK	RB1#0	--	Pass

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 122 of 131

20 MHz	Middle	QPSK	RB1#0	--	Pass
--------	--------	------	-------	----	------

NR Band 41						
Test BW	CH	Modul.	UL RB Number	UL RB Position	Refer to Plot ^{Note 3}	Verdict
20 MHz	Middle	PI/2 BPSK	25	12	--	PASS
60 MHz	Middle	PI/2 BPSK	81	40	--	PASS
100 MHz	Middle	PI/2 BPSK	135	67	--	PASS

TEST REPORT

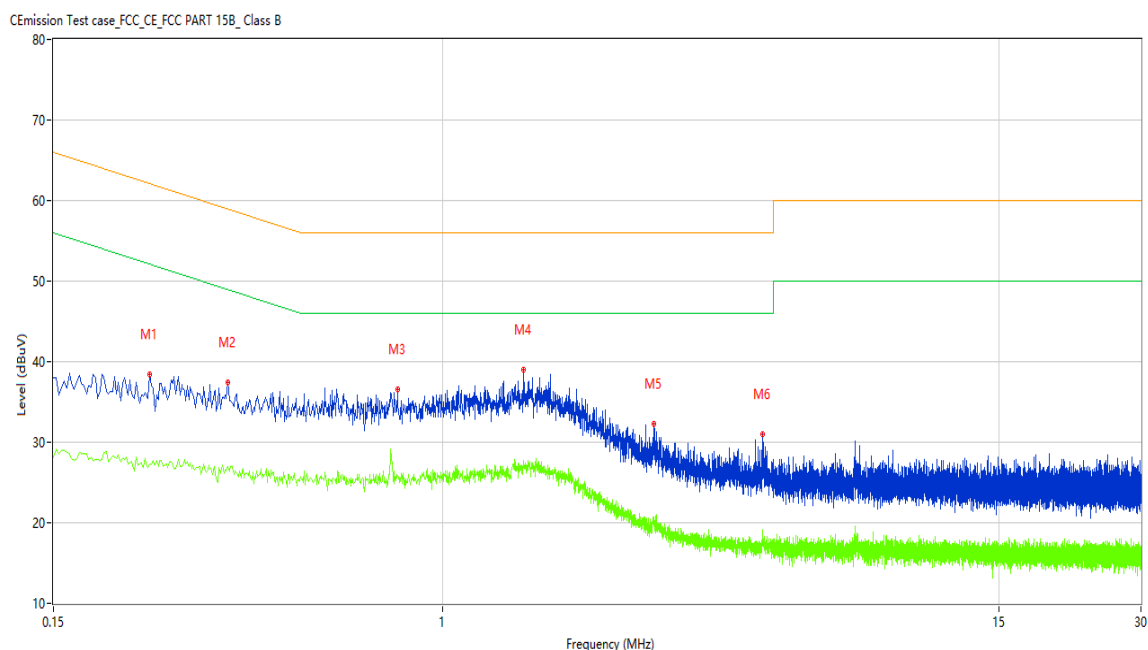
Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 123 of 131

5.1.8 AC Power-line Conducted Emissions

Note: Only the worst test results were recorded in this report.



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.240	51.08	9.68	62.10	-11.02	Peak	L	Pass
1*	0.240	30.20	9.68	62.10	-31.90	QP	L	Pass
1**	0.240	27.29	9.68	52.10	-24.81	AV	L	Pass
2	0.350	38.49	9.72	58.96	-20.47	Peak	L	Pass
2*	0.350	24.82	9.72	58.96	-34.14	QP	L	Pass
2**	0.350	27.01	9.72	48.96	-21.95	AV	L	Pass
3	0.802	28.63	9.75	56.00	-27.37	Peak	L	Pass
3*	0.802	20.93	9.75	56.00	-35.07	QP	L	Pass
3**	0.802	25.82	9.75	46.00	-20.18	AV	L	Pass
4	1.484	33.16	9.67	56.00	-22.84	Peak	L	Pass
4*	1.484	22.66	9.67	56.00	-33.34	QP	L	Pass
4**	1.484	27.38	9.67	46.00	-18.62	AV	L	Pass
5	2.792	29.95	9.69	56.00	-26.05	Peak	L	Pass
5*	2.792	19.49	9.69	56.00	-36.51	QP	L	Pass
5**	2.792	20.54	9.69	46.00	-25.46	AV	L	Pass
6	4.744	25.30	9.70	56.00	-30.70	Peak	L	Pass
6*	4.744	14.21	9.70	56.00	-41.79	QP	L	Pass
6**	4.744	17.48	9.70	46.00	-28.52	AV	L	Pass

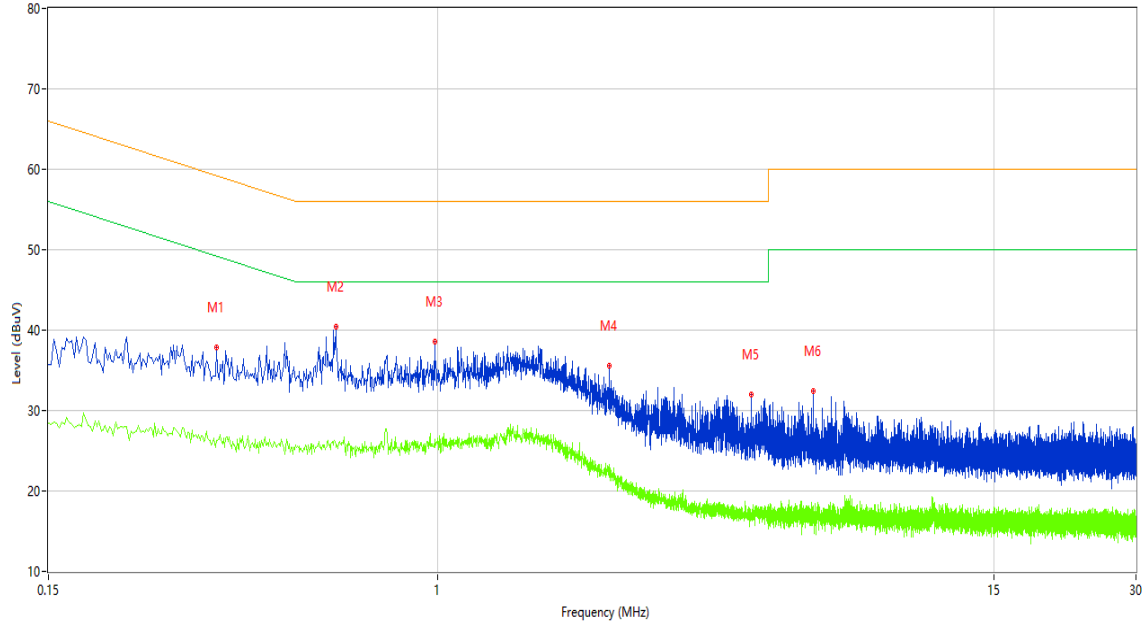
TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 124 of 131

Emission Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.340	34.66	9.72	59.20	-24.54	Peak	N	Pass
1*	0.340	24.74	9.72	59.20	-34.46	QP	N	Pass
1**	0.340	26.22	9.72	49.20	-22.98	AV	N	Pass
2	0.608	43.61	9.76	56.00	-12.39	Peak	N	Pass
2*	0.608	34.73	9.76	56.00	-21.27	QP	N	Pass
2**	0.608	25.87	9.76	46.00	-20.13	AV	N	Pass
3	0.984	32.57	9.69	56.00	-23.43	Peak	N	Pass
3*	0.984	24.33	9.69	56.00	-31.67	QP	N	Pass
3**	0.984	26.47	9.69	46.00	-19.53	AV	N	Pass
4	2.306	33.98	9.68	56.00	-22.02	Peak	N	Pass
4*	2.306	25.09	9.68	56.00	-30.91	QP	N	Pass
4**	2.306	22.90	9.68	46.00	-23.10	AV	N	Pass
5	4.598	28.82	9.69	56.00	-27.18	Peak	N	Pass
5*	4.598	18.53	9.69	56.00	-37.47	QP	N	Pass
5**	4.598	17.32	9.69	46.00	-28.68	AV	N	Pass
6	6.232	33.01	9.69	60.00	-26.99	Peak	N	Pass
6*	6.232	22.62	9.69	60.00	-37.38	QP	N	Pass
6**	6.232	18.19	9.69	50.00	-31.81	AV	N	Pass

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 125 of 131

5.1.9 Receiver Spurious Emissions

Note: Only the worst test results were recorded in this report.



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
115.581	-70.98	-10.44	-13.0	-57.98	172.90	Horizontal	Vertical	Pass
242.377	-64.32	-3.19	-13.0	-51.32	26.30	Horizontal	Vertical	Pass
657.191	-57.62	0.69	-13.0	-44.62	316.90	Horizontal	Vertical	Pass
1197.451	-51.01	1.64	-13.0	-38.01	256.30	Horizontal	Vertical	Pass
2335.166	-49.23	0.86	-13.0	-36.23	146.10	Horizontal	Vertical	Pass
5763.309	-41.58	11.91	-13.0	-28.58	360.30	Horizontal	Vertical	Pass

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 126 of 131



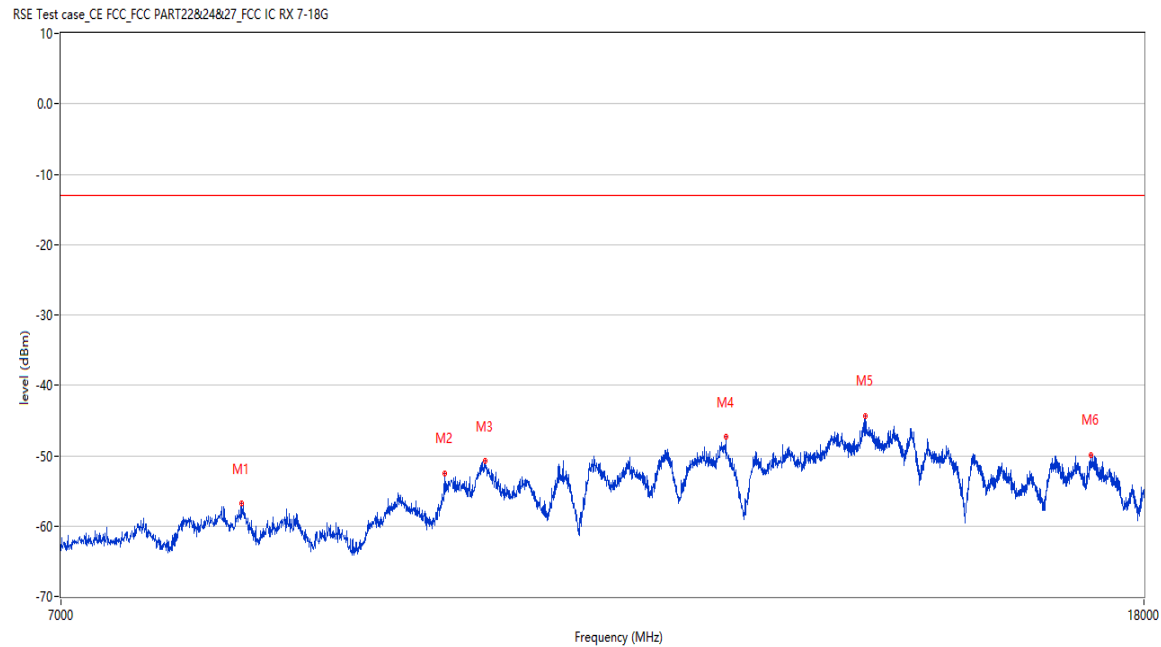
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
116.551	-64.10	-10.78	-13.0	-51.10	201.80	Vertical	Vertical	Pass
202.374	-64.43	-9.35	-13.0	-51.43	246.80	Vertical	Vertical	Pass
240.195	-64.14	-2.59	-13.0	-51.14	258.10	Vertical	Vertical	Pass
1201.950	-51.01	1.75	-13.0	-38.01	214.60	Vertical	Vertical	Pass
2401.150	-47.37	2.43	-13.0	-34.37	282.30	Vertical	Vertical	Pass
5123.469	-42.44	11.45	-13.0	-29.44	287.50	Vertical	Vertical	Pass

TEST REPORT



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
7527.868	-59.03	16.80	-13.0	-46.03	35.40	Horizontal	Vertical	Pass
8039.240	-57.45	18.23	-13.0	-44.45	326.00	Horizontal	Vertical	Pass
10125.969	-50.15	24.03	-13.0	-37.15	164.90	Horizontal	Vertical	Pass
12438.140	-47.74	24.81	-13.0	-34.74	71.80	Horizontal	Vertical	Pass
14106.973	-45.23	29.13	-13.0	-32.23	32.00	Horizontal	Vertical	Pass
16600.600	-50.31	23.13	-13.0	-37.31	80.40	Horizontal	Vertical	Pass

TEST REPORT



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
8195.951	-56.80	19.10	-13.0	-43.80	18.00	Vertical	Vertical	Pass
9779.555	-52.54	21.37	-13.0	-39.54	12.40	Vertical	Vertical	Pass
10134.216	-50.80	23.88	-13.0	-37.80	360.00	Vertical	Vertical	Pass
12498.625	-47.38	25.36	-13.0	-34.38	342.50	Vertical	Vertical	Pass
14120.720	-44.32	29.05	-13.0	-31.32	102.90	Vertical	Vertical	Pass
17191.702	-49.87	22.81	-13.0	-36.87	190.30	Vertical	Vertical	Pass

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 129 of 131

6 Photos

6.1 Photographs of the Sample



Front of the sample



Rear of the sample

TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 130 of 131

6.2 Set-up for Conducted Emissions



6.3 Set-up for Conducted RF test at Antenna Port



TEST REPORT

Report No.: SHE22030040-02CE

Date: 2022-12-28

Page 131 of 131

6.4 Set-up for Spurious Emissions below 1GHz



Below 1 GHz

6.5 Set-up for Spurious Emissions above 1GHz



Above 1GHz

End of the report